

oligonucleotides for its amplification. As an example, 100,000 oligonucleotides would be needed to study gene expression in an organism having 50,000 genes. This quantity of oligonucleotides exceeds greatly the capacity of present oligonucleotide synthesizers.--

**REMARKS**

This Amendment does not increase the number of claims. If, however, our calculations are in error and a fee is due, please charge this fee to Deposit Account No. 07-0153.

The Examiner is invited to telephone the undersigned at the telephone number listed below if he or she has any questions or suggested amendments to the claims.

Dated this January 24, 2002.

Respectfully submitted,

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## Amended Paragraph 2 for Serial No.: 10/004,487

[0002] The United States Government may own certain rights in this invention under DARPA Grant No.: N65236-99-I-5426.

The present surge in genomic research, concomitant with the completion of several genome projects, and the anticipated

5 investigation of several new organisms requires rapid oligonucleotide synthesis. In general, each gene requires two oligonucleotides for its amplification. As an example, 100,000 oligonucleotides would be needed to study gene expression in an organism having 50,000 genes. This quantity 10 of oligonucleotides exceeds greatly the capacity of present

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